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CURRICULUM VITAE

NAME: William Watson

ORGANIZATION: National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Southwest Fisheries Science Center
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POSITION: Research Fishery Biologist

EDUCATION:

M.S., Oceanography, University of Hawaii, 1974
B.S., Oceanography, University of Washington, 1970
B.S., Zoology, University of Washington, 1970

EXPERIENCE:

1989 C Present	Research Fishery Biologist National Marine Fisheries Service, NOAA Southwest Fisheries Science Center La Jolla, California
1977 C 1989	Senior Scientist MEC Analytical Systems, Inc. Carlsbad, California
1975 C 1977	Research Assistant North Carolina State University Raleigh, North Carolina
1973 C 1975:	Research Associate 2 University of Hawaii Honolulu, Hawaii

RESEARCH ACTIVITIES:

Development and identification of early life history stages of eastern Pacific and Indo-Pacific fishes. Coastal Fisheries Resources Division groundfish, coastal pelagic fish, and squid fisheries research, CalCOFI surveys, and anchovy/sardine egg staging activities. Production of planktonic shorefish eggs and larvae from coastal marine reserves. Distributional ecology of early life history stages of coastal fish species.

HONORS and AWARDS:

Honorable Mention Recognition, Outstanding Publications Awards Subcommittee, *Fishery Bulletin*, 1991

Performance Awards C 1992, 1994, 1998

Quality Step Increases C 1993, 1995, 1997

FORMAL TRAINING RECEIVED FROM THE FEDERAL GOVERNMENT:

EEO Training C annually

Hazardous Material/ Environmental Site Specific Train the Trainer C August 1994

PROFESSIONAL AFFILIATIONS:

American Society of Ichthyologists and Herpetologists

PUBLICATIONS:

Watson, W.

In press. Early life history stages of the whitetip flyingfish, *Cheilopogon xenopterus* (Gilbert, 1890) (Pisces: Exocoetidae). Fish. Bull., U.S. 97(4).

Watson, W., R.L. Charter, H.G. Moser, R.D. Vetter, D.A Ambrose, S.R. Charter, L.L. Robertson, E.M. Sandknop, E.A. Lynn, and J. Stannard. 1999. Fine-scale distributions of planktonic fish eggs in the vicinities of Big Sycamore Canyon and Vandenberg Ecological Reserves, and Anacapa and San Miguel Islands, California. Calif. Coop. Oceanic Fish. Invest. Rep. 40:128-153.

Watson, W.

1998. Early stages of the bloody frogfish, *Antennarius sanguineus* Gill 1863, and the bandtail frogfish, *Antennatus strigatus* (Gill 1863) (Pisces: Antennariidae). Calif. Coop. Oceanic Fish. Invest. Rep. 39: 219-235.

Watson, W. and A. G. Miskiewicz.

1998. Blenniidae: Blennies. In Larvae of temperate Australian fishes, F. J. Neira, A. G. Miskiewicz, and T. Trnski, eds. Univ. Western Australia Press, Nedlands, pp. 368-381.

Moser, H. G. (ed.).

1996. The early stages of fishes in the California Current region. CalCOFI Atlas 33, 1505 p. [Watson author or coauthor of 101 chapters]

Moser, H. G., R. L. Charter, P. E. Smith, N. C- H. Lo, D. A. Ambrose, C. A. Meyer, E. M.

Sandknop, and W. Watson.

1994. Early life history of sablefish, *Anoplopoma fimbria*, off Washington, Oregon, and California, with application to biomass estimation. Calif. Coop. Oceanic Fish. Invest. Rep. 35: 144-159.

Moser, H. G., R. L. Charter, P. E. Smith, D. A. Ambrose, S. R. Charter, C. A. Meyer, E. M.

Sandknop, and W. Watson.

1994. Distributional atlas of fish larvae in the California Current region: Taxa with less than 1000 total larvae, 1951 through 1984. CalCOFI Atlas 32, 181 p.

Moser, H. G., R. L. Charter, P. E. Smith, D. A. Ambrose, S. R. Charter, C. A. Meyer, E. M.

Sandknop, and W. Watson.

1993. Distributional atlas of fish larvae and eggs in the California Current region: Taxa with 1000 or more total larvae, 1951 through 1984. CalCOFI Atlas 31, 233 p.

Watson, W.

1992. Distribution of larval Pacific sardine, *Sardinops sagax*, in shallow coastal waters between Oceanside and San Onofre, California: 1978-1986. Calif. Coop. Oceanic Fish. Invest. Rep. 33: 89-99.

Watson, W. and H. J. Walker, Jr.

1992. Larval development of sargo, *Anisotremus davidsonii*, and salema, *Xenistius californiensis* (Pisces, Haemulidae), from the Southern California Bight. Bull. Mar. Sci. 51(3): 360-406.

Boehlert, G. W., W. Watson, and L. C. Sun.

1992. Horizontal and vertical distribution of larval fishes around an isolated oceanic island in the tropical Pacific. Deep-Sea Res. 39(3/4): 439-466.

Moser, H. G. and W. Watson.

1990. Distribution and abundance of early life history stages of the California halibut, *Paralichthys californicus*, and a comparison with the fantail sole, *Xystreurus liolepis*. Cal. Dep. Fish. Game, Fish. Bull. 174: 31-84.

Watson, W. and R. L. Davis.

1989. Larval fish diets in shallow coastal waters off San Onofre, California. Fish. Bull., U.S. 87(3): 569-591.

Watson, W.

1989. Champsodontidae C Gapers. In The larvae of Indo-Pacific shorefishes, J. M. Leis and T. Trnski, eds. New South Wales University Press, Kensington, pp. 254-258.

Watson, W.

1989. Schindleriidae C Schindler's fishes. In The larvae of Indo-Pacific shorefishes, J. M. Leis and T. Trnski, eds. New South Wales University Press, Kensington, pp. 270-273.

Stevens, E. G., W. Watson, and H. G. Moser.

1989. Development and distribution of larvae and pelagic juveniles of three kyphosid fishes (*Girella nigricans*, *Hermosilla azurea*, *Medialuna californiensis*) off California and Baja California. Fish. Bull., U.S. 87(3): 745-768.

Watson, W.

1987. Larval development of the endemic Hawaiian blenniid, *Enchelyurus brunneolus* (Pisces: Blenniidae: Omobranchini). Bull. Mar. Sci. 41(3): 856-888.

Walker, H. J., Jr., W. Watson, and A. M. Barnett.

1987. Seasonal occurrence of larval fishes in the nearshore Southern California Bight off San Onofre, California. Estuarine Coastal Shelf Sci. 25: 91-109.

Matarese, A. C., E. G. Stevens, and W. Watson.

1984. Icosteoidei: Development and relationships. *In* Ontogeny and systematics of fishes, H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson, eds. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. No. 1, pp. 576-577.

Matarese, A. C., W. Watson, and E. G. Stevens.

1984. Blennioidea: Development and relationships. *In* Ontogeny and systematics of fishes, H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson, eds. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. No. 1, pp. 565-573.

Stevens, E. G., A. C. Matarese, and W. Watson.

1984. Ammodytoidei: Development and relationships. *In* Ontogeny and systematics of fishes, H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson, eds. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. No. 1, pp. 574-575.

Stevens, E. G., W. Watson, and A. C. Matarese.

1984. Notothenioidea: Development and relationships. *In* Ontogeny and systematics of fishes, H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson, eds. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. No. 1, pp. 561-564.

Watson, W., A. C. Matarese, and E. G. Stevens.

1984. Trachinoidea: Development and relationships. *In* Ontogeny and systematics of fishes, H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson, eds. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. No. 1, pp. 554-561.

Watson, W., E. G. Stevens, and A. C. Matarese.

1984. Schindlerioidei: Development and relationships. *In* Ontogeny and systematics of fishes, H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson, eds. Amer. Soc. Ichthyol. Herpetol. Spec. Publ. No. 1, pp. 552-554.

Barnett, A. M., A. E. Jahn, P. D. Sertic, and W. Watson.

1984. Distribution of ichthyoplankton off San Onofre, California, and methods for sampling very shallow coastal waters. Fish. Bull., U.S. 82(1): 97-111.

Watson, W.

1983. Redescription of larvae of the pigfish, *Orthopristis chrysoptera* Linnaeus. Fish. Bull., U. S. 81(4): 847-854.

Watson, W.

1983. Blenniidae C combtooth blennies. *In* The larvae of Indo-Pacific coral reef fishes, J. M. Leis and D. S. Rennis, eds. Univ. Hawaii Press, Honolulu, pp. 184-199.

Walker, H. J., Jr. and W. Watson.

1983. Kyphosidae C rudder fishes, sea chubs. *In* The larvae of Indo-Pacific coral reef fishes,

J. M. Leis and D. S. Rennis, eds. Univ. Hawaii Press, Honolulu, pp. 129-131.

Watson, W.

1982. Development of eggs and larvae of the white croaker, *Genyonemus lineatus* Ayres (Pisces: Sciaenidae), off the southern California coast. Fish. Bull., U S. 80(3): 403-417.

Miller, J. M., W. Watson, and J. M. Leis.

1979. An atlas of the common nearshore marine fish larvae of the Hawaiian Islands. Univ. Hawaii Sea Grant Publ. UNIHI-SEAGRANT-MR-80-02, 179 p.

Miller, J. M. and W. Watson.

1978. Review of ~~A~~The eggs and planktonic stages of British marine fishes.~~@~~ Trans. Amer. Fish. Soc. 107(4): 649-650.

Copeland, B. J., J. M. Miller, W. Watson, R. Hodson, W. S. Birkhead, and J. Schneider.

1977. Meroplankton: Problems of sampling and analysis of entrainment. In Third national workshop on entrainment and impingement, section 316(b) C Research and compliance, L. D. Jensen, ed. Ecological Analysts, Inc., pp. 119-138.

Watson, W. and J. M. Leis.

1974. Ichthyoplankton of Kaneohe Bay, Hawaii: A one-year study of fish eggs and larvae. Univ. Hawaii Sea Grant Publ. TR-75-01, 178 p.

Miller, J. M., W. Watson, and J. M. Leis.

1973. The larval fishes of Kaneohe Bay, Oahu, Hawaii. Pages 101-105 in S. V. Smith, K. E. Chave, and D. T. O. Kam , eds., Atlas of Kaneohe Bay: A reef ecosystem under stress. Univ. Hawaii Sea Grant Publ. TR-72-01, 128 p.